



ORBITAL SHAKER

ORBITAL SHAKER LOS-100 SERIES

Labocon Orbital Shaker LOS-100 Series is designed for shaking, mixing and aeration applications. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

Features

- Simple and digital type shaker
- Stable, quiet and continuous operation
- Variable speed and timer control
- Digital display of speed and time (LOS-103, LOS-104)

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LOS 101

Specification

Model	LOS-101	LOS-102	LOS-103	LOS-104
Temp. Range	None			
Shaking Motion	Orbital			
Shaking Speed Range	20-240 rpm			
Shaking Orbit	20 mm			
Timer Range	0-30 min mechanical timer		99h 59 min digital timer	
Operation	Continuous/Timed			
Display	Analog		Digital	
Max. Load Capacity	2 kg at 20-150 rpm 1 kg at 151-240 rpm			
Platform Dimension	230x230 mm	280x280 mm	230x230 mm	280x280 mm
Overall Dimension	260x295x140 mm		260x295x140 mm	280x295x140 mm
Power	10 W			
Power Supply	220 V, 60 Hz			
Weight	5/5.5 kg	5.5/6 kg	5/5.5 kg	5.5/6 kg
Catalog No.	9173123162	9173124162	9173125162	9173126162

ORBITAL SHAKER LOS-200 SERIES

Labocon Orbital Shaker LOS-200 Series is designed for shaking, mixing and aeration applications. It is compact with micro-computer control technology. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

Features

- Adjustable speed control provides gentle to vigorous agitation
- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Audio alarm signals program completion
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LOS 201



LOS 203

Specification

Model	LOS-201	LOS-202	LOS-203
Temp. Range	4-45°C		
Shaking Motion	Orbital		
Shaking Speed Range	50-350 rpm	50-300 rpm	50-250 rpm
Shaking Orbit	10 mm	20 mm	30 mm
Timer Range	1min-99h59 min		
Operation	Continuous/Timed		
Display	LED		
Max. Load Capacity	2 kg		
Platform Dimension	246x206 mm	270x220 mm	270x218 mm
Overall Dimension	280x260x90 mm		
Power	50 W		
Power Supply	230 V, 60 Hz		
Weight	7.5 kg		
Catalog No.	9173127344	9173128344	9173129344

Optional Accessories

Model	Description
LPC-O1	Platform with clamps for flasks, 100-150ml
LPC-O2	Platform with clamps for flasks, 250-300ml
LUP-O1	Universal platform with adjustable bars for different types of flasks, bottles
LFP-O1	Flat platform with non-slip rubber mat

ORBITAL SHAKER LOS-300 SERIES

Labocon Orbital Shaker LOS-300 Series are well designed, providing a long working life even under repeated and continuous use. These versatile orbital shakers operate with a 10-mm diameter orbital action, with a shaking speed ranging from 100 rpm to 500 rpm. A wide range of platforms is available, making them ideal for use with culture flasks, Petri dishes, Erlenmeyer flasks, bottles and other vessels.

Features

- Compact space-saving design fits easily in incubator and refrigerator
- Simultaneous display of speed, timer and operating mode
- Electronic time switching clock controls time or continuous operation mode
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Over speed detection and protection
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers
- RS232 interface enables data logging & computer control

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LOS 301



LOS 302

Specification

Model	LOS-301	LOS-302	LOS-303
Temp. Range	+4-40°C		
Shaking Motion	Orbital		
Shaking Speed Range	0-200 rpm	100-800 rpm	100-500 rpm
Shaking Orbit	20 mm	4 mm	10 mm
Timer Range	None	1-1199 min	
Operation	Continuous	Continuous/Timed	
Display	Analog	LCD	
Max. Load Capacity	3 kg	2.5 kg	7.5 kg
Platform Dimension	240x240 mm		320x320mm
Overall Dimension	330x270x110 mm	340x300x100 mm	420x370x100 mm
Power	30 W		
Power Supply	240 V, 60 Hz		
Weight	3.1 kg	8.1 kg	13.5 kg
Catalog No.	9173130163	9173131163	9173132163

Accessories for LOS-301 and LOS-302

Model	Description
LUP-03	Universal attachment with 3 horizontal bars (Universal Platform)
LUP-04	Universal attachment with 3 vertical bars (Universal Platform)
LFP-03	Tissue Culture Flask platform with anti-slip surface (Flat Platform)
LFP-04	Fixing Clip Platform (Flat Platform)
LFC-05	25ml Fixing Clip (Flask Clamps)
LFC-06	50ml Fixing Clip (Flask Clamps)
LFC-07	100ml Fixing Clip (Flask Clamps)
LFC-08	200/250ml Fixing Clip (Flask Clamps)
LFC-09	500ml Fixing Clip (Flask Clamps)

Accessories for LOS-303

Model	Description
LUP-05	Universal attachment with 4 horizontal bars (Universal Platform)
LUP-06	Universal attachment with 4 vertical bars (Universal Platform)
LFP-05	Tissue Culture Flask platform, with anti-slip surface (Flat Platform)
LFP-04	Fixing Clip Platform (Flat Platform)
LFC-05	25ml Fixing Clip (Flask Clamps)
LFC-06	50ml Fixing Clip (Flask Clamps)
LFC-07	100ml Fixing Clip (Flask Clamps)
LFC-08	200/250ml Fixing Clip (Flask Clamps)
LFC-09	500ml Fixing Clip (Flask Clamps)

ORBITAL SHAKER LOS-400 SERIES

Labocon Orbital Shaker LOS-400 Series is designed for shaking, mixing and aeration applications. It is equipped with microprocessor control technology and a long lasting brushless motor that enables quiet operation and consistent performance. The multi-functional shaking system is suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

Features

- Multi-functional shaking system
- Compact space-saving design fits easily in incubator and refrigerator
- Adjustable speed control provides gentle to vigorous agitation
- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Self-diagnostic function ensures identification of errors (LOS-403)
- Programmable designs with 9 steps and 9 programs (LOS-403)
- Shaking modes can be set in maximum 9 ways of Forward/Backward/Pause/Mix & Match (LOS-403)
- Audio alarm signals program completion
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LOS 401



LOS 402

Specification

Model	LOS-401	LOS-402	LOS-403 DISCONTINUED
Temp. Range	Ambient +5-40°C		
Shaking Motion	Orbital		
Shaking Speed Range	50-250 rpm	50-300 rpm	50-250 rpm
Shaking Orbit	20 mm	10 mm	10, 15, 20 mm available
Timer Range	1min-99h 59 min		0-99h 59min
Operation	Continuous/Timed		
Display	LED		
Max. Load Capacity	2.5 kg	3 kg	8 kg
Platform Dimension	270x230 mm		(LFP-03 and LFP-04) 320x270x20 mm (LUP-03 and LUP-04) 400x280x133 mm
Overall Dimension	280x270x110 mm		320x350x145 mm
Power	50 W		
Power Supply	DC 24V		240 V, 60 Hz
Weight	7.2 kg		17.5 kg
Catalog No.	9173133105	9173134105	9173135105

Optional Accessories for Model LOS-401, LOS-402

Model	Description
LPC-03	Platform with clamps for flasks, 12 no.x100-150ml
LPC-04	Platform with clamps for flasks, 6 no.x250-300ml
LUP-02	Universal platform with adjustable bars for different types of flasks, bottles
LFP-02	Flat platform with non-slip rubber mat

Accessories for Model LOS-403

Model	Description
LFC-01	Flask Clamps SH100 for 50-100ml
LFC-02	Flask Clamps SH250 for 200-250ml
LFC-03	Flask Clamps SH500 for 500ml
LFC-04	Flask Clamps SH1000 for 1000ml
LFP-03	S-PP-1 Platform W320 x D290mm
LFP-04	S-PP-2 Platform W300 x D270mm
LUP-03	S-UP-1 Platform W340 x D280 x H175mm
LUP-04	S-UP-2 Platform W340 x D280 x H175mm

ORBITAL SHAKER LOS-500 SERIES

Labocon Orbital Shaker LOS-500 Series is designed for shaking, mixing and aeration applications. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

Features

- Stainless steel platform and clamps
- Easy to use continuous operation
- Suitable for carrying heavy load
- Brushless DC motor ensures maintenance-free, reliable and quiet operation

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LOS 501

Specification

Model	LOS-501	LOS-502	LOS-503	LOS-504
Temp. Range	No heating function			
Shaking Motion	Orbital			
Shaking Speed Range	10-250 rpm			
Shaking Orbit	25 mm			
Timer Range	None			
Operation	Continuous			
Display	Analog			
Max. Load Capacity	5 kg	15 kg		20 kg
Platform Dimension	340x340 mm	500x500 mm	600x600 mm	1060x600 mm
Overall Dimension	380x410x195 mm	560x600x225 mm	660x580x225 mm	1120x700x225 mm
Power	50 W	100 W		120 W
Power Supply	220 V, 60 Hz			
Weight	45 kg			
Catalog No.	9173136162	9173137162	9173138162	9173139162

Accessories

Model	Description (Flask Capacity)
LFC-10	50ml
LFC-11	125ml
LFC-12	250ml
LFC-13	500ml
LFC-14	1L
LFC-15	2L

ORBITAL SHAKER LOS-600 SERIES

Labocon Orbital Shaker LOS-600 Series is designed for shaking, mixing and aeration applications. It is compact with micro-computer control technology. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

Features

- Easy to clean anti-eroding stainless steel or alnico plate
- Microprocessor based PID controller with timing function
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Audio alarm signals program completion
- Smooth start and stop system prevents liquid spillage
- Programmable controller with LCD screen (LOS-606, LOS-607)
- Heating plate function (LOS-606, LOS-607)
- Over-temperature alarm (LOS-606, LOS-607)

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LOS 605



LOS 606

Specification

Model	LOS-601	LOS-602	LOS-603	LOS-604
Temp. Range	No heating function			
Shaking Motion	Orbital			
Shaking Speed Range	50-250 rpm		20-300 rpm	
Shaking Orbit	10 mm	20 mm		
Timer Range	1-9999 min			
Operation	Continuous/Timed			
Display	Analog			
Max. Load Capacity				
Platform Dimension	280x270 mm		350x260 mm	400x340 mm
Overall Dimension	470x360x330 mm			520x540x400 mm
Power	100 W		110 W	120 W
Power Supply	220 V, 60 Hz			
Weight	7.2/10.27 kg			25/33 kg
Catalog No.	9173140250	9173141250	9173142250	9173143250

Model	LOS-605	LOS-606	LOS-607	LOS-608
Temp. Range	No heating function	RT 5-100°C		RT +5-65°C
Shaking Motion	Orbital			
Shaking Speed Range	20-300 rpm	20-250 rpm		20-300 rpm
Shaking Orbit	20 mm			
Timer Range	1-9999 min			
Operation	Continuous/Timed			
Display	Analog	LCD		Analog
Max. Load Capacity				
Platform Dimension	450x450 mm	350x260 mm	380x430 mm	400x340 mm
Overall Dimension	660x620x410 mm	580x530x360 mm		820x670x930 mm
Power	130 W	300 W	400 W	450 W
Power Supply	220 V, 60 Hz			
Weight	30/39 kg	21/33 kg		68/80 kg
Catalog No.	9173144250	9173145250	9173146250	9173147250

Platform Accessories

For Model	Model	Description (Volume x No. of flasks)
LOS-601, LOS-602	LPF-01	100ml x 12
	LPF-02	250ml x 6
LOS-604	LPF-03	50ml x 29
	LPF-04	100ml x 18
	LPF-05	250ml x 11
	LPF-06	500ml x 7
	LPF-07	1000ml x 4
	LPF-08	2000ml x 3
LOS-605	LPF-09	50ml x 42
	LPF-10	100ml x 28
	LPF-11	250ml x 12
	LPF-12	500ml x 11
	LPF-13	1000ml x 8
	LPF-14	2000ml x 4
LOS-608	LPF-15	50ml x 37
	LPF-16	100ml x 22
	LPF-17	250ml x 14
	LPF-18	500ml x 10

ORBITAL SHAKER (DOUBLE DECKER) LODS-100 SERIES

Labocon Orbital Shaker LODS-100 Series features a well-designed and robust Double Decker to increase capacity. The three eccentric shaft balancing drive ensures that the sample on platform shakes with the same speed. The unique design of speed monitoring circuit provides long working life under repeated and continuous use. A wide range of platforms available make them ideal for use with culture flasks, bottles and other vessels.

Features

- Easy to clean stainless steel platform
- Available in monolayer (LODS-101 and LODS-103) and double-decker design (LODS-102 and LODS-104)
- Three eccentric shaft balancing drive to ensure uniform sample shaking speed
- Unique speed monitoring circuit design
- Microprocessor controller with timer function for reliable temperature control
- Menu-driven easy to use interface
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Slow startup function prevents liquid spillage
- Data retrieval on power failure
- Optional: Programmable Temperature Controller

Application

Labocon Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



LODS 101



LODS 102

Specification

Model	LODS-101	LODS-102	LODS-103	LODS-104
Temp. Range	RT +5-65°C		4-65°C	
Shaking Motion	Orbital			
Shaking Speed Range	20-300 rpm			
Shaking Orbit	30/50 mm			
Timer Range	0-500 h			
Operation	Continuous/Timed			
Display	LCD			
Max. Load Capacity				
Platform Dimension	800x600 mm		920x640 mm	
Overall Dimension	1000x890x780 mm	1070x950x890 mm	1210x1050x780 mm	1280x1150x890 mm
Power	400 W			
Power Supply	220 V, 60 Hz			
Weight	151/168 kg	168/195 kg	176/198 kg	196/225 kg
Catalog No.	9173148250	9173149250	9173150250	9173151250

Platform Accessories

For Model	Model	Description (Volume x No. of Flask) / Desk
LODS-101, LODS-102	LPF-19	500ml x 60
	LPF-20	250ml x 48
	LPF-21	500ml x 30
	LPF-22	1000ml x 20
	LPF-23	2000ml x 12
LODS-103, LODS-104	LPF-24	500ml x 60
	LPF-25	250ml x 63
	LPF-26	500ml x 35
	LPF-27	1000ml x 35
	LPF-28	2000ml x 16



LABOCON SYSTEMS LIMITED

Fowler Avenue, The Hub, Farnborough Business Park
Farnborough, GU14 7JF, United Kingdom

 +44 203 3724850 |  info@labocon.com |  www.labocon.com